

INSTALLATION INSTRUCTIONS
& CONDITIONS FOR SAFE USE

 II 3 G Ex ec IIC Gc

Modular TERMINAL Blocks: A- Series

TÜV 24 ATEX 9181 U
IECEx TUR 24.0066 U

Standards:

EN IEC 60079-0:2018 and EN 60079-7:2015, EN IEC 60079-7:2015/A1:2018
 IEC 60079-0: 7th Edition and IEC 60079-7: 5.1th Edition

Test-disconnect terminal Blocks: ALDT 2.5 4C

| | | |
|----------------------|-------------------------------|------------|
| Version: | Type | Order No |
| | ALDT 2.5 4C* | 2898720000 |
| in conjunction with: | AL4C 2.5 PE | 2847610000 |
| Accessories: | | Order No |
| End Plate | ALEP DT 2.5 4C* | 2898870000 |
| End bracket | AEB 35 SC/1* | 1991920000 |
| Terminal rail | TS 35/... acc.to DIN EN 60715 | |
| Cross-connection | Pluggable | Order No |
| | ZQV 2.5N/2* | 1527540000 |
| | ZQV 2.5N/3* | 1527570000 |
| | ZQV 2.5N/4* | 1527590000 |
| | ZQV 2.5N/5* | 1527620000 |
| | ZQV 2.5N/6* | 1527630000 |
| | ZQV 2.5N/7* | 1527640000 |
| | ZQV 2.5N/8* | 1527670000 |
| | ZQV 2.5N/9* | 1527680000 |
| | ZQV 2.5N/10* | 1527690000 |

* in all colours

Insulation material:

| | |
|--|--|
| - Type | Wemid |
| - Tracking resistance (A) to IEC 60112 | CTI \geq 600 |
| - Flammability class to UL 94 | V0 |
| - Operating temperature range | -60°C...+130°C (insulating material limit) |

Technical data according to IEC/EN 60079-7 / Ex ec:**ALDT 2.5 4C**

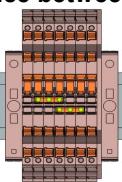
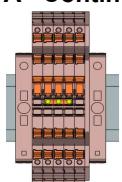
| | |
|---|---------------------------|
| - Rated voltage | 550 V |
| - Rated current | 18 A / ΔT 40 K |
| - Rated current with ZQV 2,5N/... | 18 A / ΔT 40 K |
| - Contact resistance with rated conductor, 2.5 mm ² | 1,5 mΩ |
| - Rated conductor cross section | 2.5 mm ² |
| - Conductor cross section solid | 0,5 - 4 mm ² |
| - Conductor cross section flexible | 0,5 - 4 mm ² |
| - Conductor cross section flexible with ferrule | 0,5 - 2,5 mm ² |
| - cross section, American Wire Gauge | 26 - 12 AWG |
| - Stripping length | 10 +/- 1 mm |

Service life acc. To IEC 60947-7-1

| | |
|--------------------------|-----------|
| - max. no. Of actuations | 25 cycles |
|--------------------------|-----------|

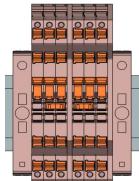
IECEx / ATEX - Terminal and Cross-Connection Arrangements:

Max voltage data according to IEC/EN 60079-7 in conjunction with protective earth terminal blocks,
(increased safety "ec"):

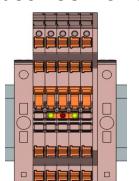
Application Case**A - Continuous no difference between one or two cross connections**

550 V

550 V

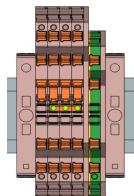
C - Adjacent – separated by an end plate no difference between one or two cross-connections

550 V

**D - Intermediate - bridging one or more unconnected terminals (e.g. every 3rd terminal) no difference
between one or two cross connections**

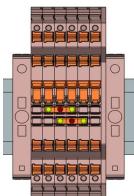
550 V

F - Next to a protective conductor terminal (earth) with end plate



550 V

H - Cross-connection with twin parallel



550 V

Information for further cross-connector arrangements will be provided on request.

Mounting instructions:

The disconnect terminals of the A-series are suitable for application in enclosures in atmospheres with flammable gases or combustible dust. For use in flammable gases these enclosures must satisfy the requirements according to IEC/EN60079-0 and IEC/EN60079-7. For use in combustible dust these enclosures must satisfy the requirements according to IEC/EN60079-0 and IEC/EN60079-31.

In combination with other terminal block series and sizes and if other accessories are used, the applicable creepage and clearance distances shall be met.

Regarding the use of accessories the instructions of the manufacturer must be followed.

Schedule of Limitations:

The enclosure shall be constructed to block all sun and UV light from affecting the terminal blocks.

WARNING – Do not remove or replace the test disconnect switch when energized!

When using the types of disconnect terminals especially with other terminal blocks series or sizes or accessories the requirements for clearance and creepage distances of IEC/EN 60079-7 must be maintained. Regarding the use of covers, cross-connectors and end brackets the instructions of the manufacturer must be followed.

Please refer to the table under "Technical data" above.

No other wire sizes or types than the ones specified in instructions must be used. The terminal blocks must either be mounted next to another block of the same type and size or with an end plate.

A thermal assessment for the classification into the temperature classes T6.....T1 shall be performed. No part of terminal block must exceed 130 °C under any condition.

The insulation material of the conductors shall meet the temperature requirements.



- Cross connections with blank ends shall not be used.
- Manually cut cross connections shall not be used.

Essential Health and Safety Requirements:

Concerning ESRs this Schedule verifies compliance with the Annex III of ATEX directive only. By placing the product on the market, the manufacturer declares compliance with other relevant Directives, and all other safety related requirements including those of Annex II of this Directive.